



Edgetek™ PC-15CF/000 Black

Polycarbonate

Key Characteristics

Product Description

Carbon Fiber Reinforced Polycarbonate Compound

General

Material Status	• Commercial: Active
Regional Availability	• Asia Pacific
Filler / Reinforcement	• Carbon Fiber
Appearance	• Black
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.25	1.25	ASTM D792
Molding Shrinkage (0.118 in (3.00 mm))	0.10 to 0.30 %	0.10 to 0.30 %	ISO 294-4
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ²	17400 psi	120 MPa	ASTM D638
Tensile Elongation ² (Break)	3.0 %	3.0 %	ASTM D638
Flexural Modulus ³	1.16E+6 psi	8000 MPa	ASTM D790
Flexural Strength ³	26100 psi	180 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.126 in (3.20 mm), Injection Molded	1.5 ft-lb/in	80 J/m	ASTM D256A
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	284 °F	140 °C	ASTM D648
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+2 to 1.0E+5 ohms	1.0E+2 to 1.0E+5 ohms	ASTM D257
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.0591 in (1.50 mm))	HB	HB	Internal Method

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	230 to 266 °F	110 to 130 °C
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr
Processing (Melt) Temp	536 to 590 °F	280 to 310 °C
Mold Temperature	176 to 248 °F	80.0 to 120 °C

Injection Notes

Injection Pressure: MED-HIGH
Hold Pressure: MED-HIGH
Screw Speed: MODERATE
Back Pressure: LOW

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Notes

¹ Typical values are not to be construed as specifications.

² 0.20 in/min (5.0 mm/min)

³ 0.051 in/min (1.3 mm/min)

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